



Confidentiality Requested:

Yes  No

KANSAS CORPORATION COMMISSION 1223694  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

August 2013

Form must be Typed  
Form must be Signed  
All blanks must be Filled

WELL COMPLETION FORM  
WELL HISTORY - DESCRIPTION OF WELL & LEASE

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Plug Back       Conv. to GSW       Conv. to Producer
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date	Date Reached TD	Completion Date or Recompletion Date
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API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

GPS Location: Lat: \_\_\_\_\_, Long: \_\_\_\_\_  
(e.g. xx.xxxxx) (e.g. -xxx.xxxxx)

Datum:  NAD27       NAD83       WGS84

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Vertical Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

Drilling Fluid Management Plan

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite:

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

AFFIDAVIT

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

KCC Office Use ONLY

- Confidentiality Requested  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

1223694

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed.

Final Radioactivity Log, Final Logs run to obtain Geophysical Data and Final Electric Logs must be emailed to kcc-well-logs@kcc.ks.gov. Digital electronic log files must be submitted in LAS version 2.0 or newer AND an image file (TIFF or PDF).

Drill Stem Tests Taken <i>(Attach Additional Sheets)</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Log	Formation (Top), Depth and Datum	<input type="checkbox"/> Sample
Samples Sent to Geological Survey	<input type="checkbox"/> Yes <input type="checkbox"/> No	Name	Top	Datum
Cores Taken	<input type="checkbox"/> Yes <input type="checkbox"/> No			
Electric Log Run	<input type="checkbox"/> Yes <input type="checkbox"/> No			
List All E. Logs Run:				

CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate				
<input type="checkbox"/> Protect Casing				
<input type="checkbox"/> Plug Back TD				
<input type="checkbox"/> Plug Off Zone				

Did you perform a hydraulic fracturing treatment on this well?  Yes  No *(If No, skip questions 2 and 3)*

Does the volume of the total base fluid of the hydraulic fracturing treatment exceed 350,000 gallons?  Yes  No *(If No, skip question 3)*

Was the hydraulic fracturing treatment information submitted to the chemical disclosure registry?  Yes  No *(If No, fill out Page Three of the ACO-1)*

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing  Pumping  Gas Lift  Other *(Explain)* \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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<b>DISPOSITION OF GAS:</b> <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	<b>METHOD OF COMPLETION:</b> <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <input type="checkbox"/> Commingled <i>(Submit ACO-4)</i> <input type="checkbox"/> Other <i>(Specify)</i> _____	<b>PRODUCTION INTERVAL:</b> _____ _____
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# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 618

Date	8-29-14	Sec.	18	Twp.	19	Range	11	County	Barton	State	Ks	On Location		Finish	5:00 AM
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Lease	Karrie	Well No.	1	Owner	2 1/2 N, E Into
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Contractor	Southwind #2	Charge To	RSM Company
Type Job	Surface	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.	

Hole Size	12 1/4"	T.D.	304'
Csg.	8 5/8"	Depth	304'
Tbg. Size		Depth	
Tool		Depth	

Cement Left in Csg.	20'	Shoe Joint	20'	Cement Amount Ordered	275 Com 3% cc 2% Gel
Meas Line		Displace	18 BLS	1/2 # Flo-seal	

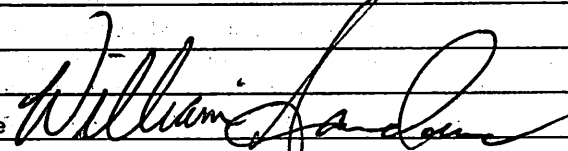
EQUIPMENT			
Pumptrk	16	No.	Cementer Helper Billy
Bulktrk	13	No.	Driver Ryan
Bulktrk	p.u.	No.	Driver Rick
JOB SERVICES & REMARKS			
Remarks:	Cement did Circulate		

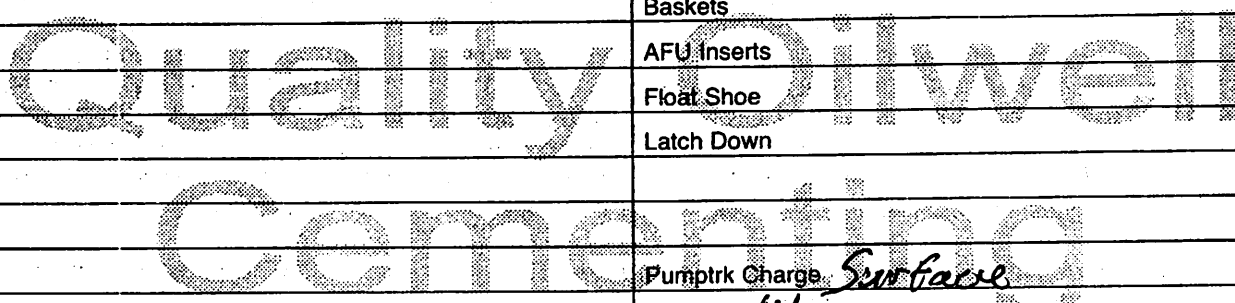
Rat Hole	
Mouse Hole	
Centralizers	used 275 sx Common
Baskets	3% cc 2% Gel 1/2 # Flo-seal
D/V or Port Collar	
Handling	291
Mileage	

Cut 150' of Sand

FLOAT EQUIPMENT	
Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	

Pumptrk Charge	Surface
Mileage	14

X Signature		Tax	
		Discount	
		Total Charge	



## GENERAL TERMS AND CONDITIONS

**DEFINITIONS:** In these terms and conditions, "Quality" shall mean Quality Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

- **TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

- **ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

- **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

- **TOWING CHARGES:** QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

- **PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

- **DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

- **SERVICE CONDITIONS AND LIABILITIES:** 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

**WARRANTIES:** 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 626

Date	9-14-18	Sec.	18	Twp.	19	Range	11	County	Barton	State	Ks	On Location		Finish	12:45 AM
Lease								Location							
Karrie								Ellinwood, Ks - west side 2 1/2 N E 1/4							
Well No.				1				Owner				To Quality Oilwell Cementing, Inc.			
Contractor				Southwind #2				Type Job				Plug			
Hole Size				7 7/8"				T.D.				3400'			
Csg.				4 1/2" D.P.				Depth				636'			
Tbg. Size								Street							
Tool								City				State			
Cement Left in Csg.				Shoe Joint				Charge To				RSM Company			
								Street							
								City				State			
								The above was done to satisfaction and supervision of owner agent or contractor.							
								Cement Amount Ordered				190 60140 4% Gel 1/4# Flb-seal			
Meas Line				Displace				H2O							
<b>EQUIPMENT</b>															
Pumptrk 16				No. Cementer Helper Billy				Common				114			
Bulktrk 3				No. Driver Lennie				Poz. Mix				76			
Bulktrk pull				No. Driver Rick				Gel.				7			
								Calcium							
<b>JOB SERVICES &amp; REMARKS</b>															
Remarks:								Hulls							
Rat Hole								Salt							
Mouse Hole								Flowseal				50 FT			
Centralizers				636' - 50 SX				Kol-Seal							
Baskets				353' - 85 SX				Mud CLR 48							
D/V or Port Collar				40' - 10 SX w/ plug				CFL-117 or CD110 CAF 38							
				Rat hole w/ 30 SX				Sand							
				Mouse hole w/ 15 SX				Handling				197			
								<b>FLOAT EQUIPMENT</b>							
				Cement did Circulate				Guide Shoe							
								Centralizer							
								Baskets							
								AFU Inserts							
								Float Shoe							
								Latch Down							
								Pumptrk Charge				plug			
								Mileage				14			
X Signature				William Anderson				Tax							
								Discount							
								Total Charge							

## GENERAL TERMS AND CONDITIONS

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– **ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

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(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

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Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 618

Date	8-29-14	Sec.	18	Twp.	19	Range	11	County	Barton	State	Ks	On Location		Finish	5:00 AM
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Lease **Karrie** Location **Ellinwood Ks - Westside @ Golf Course**

Well No.	1	Owner	2 1/2 N E 1/4
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Contractor **Southwind #2** To Quality Oilwell Cementing, Inc.  
You are hereby requested to rent cementing equipment and furnish

Type Job **Surface** cementer and helper to assist owner or contractor to do work as listed.

Hole Size	10 1/4"	T.D.	304'	Charge To	RSM Company
-----------	---------	------	------	-----------	-------------

Csg.	8 5/8"	Depth	304'	Street	
------	--------	-------	------	--------	--

Tbg. Size		Depth		City		State	
-----------	--	-------	--	------	--	-------	--

Tool Depth The above was done to satisfaction and supervision of owner agent or contractor.

Cement Left in Csg.	20'	Shoe Joint	20'	Cement Amount Ordered	275 Com 3% cc 2% Gel
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Meas Line		Displace	18 BLS	1/2 # Flo-seal
-----------	--	----------	--------	----------------

**EQUIPMENT**

Pumptrk	16	No.	Cementer	Billy	Common	275
			Helper		Poz. Mix	
Bulktrk	13	No.	Driver	Ryan	Gel.	5
			Driver		Calcium	10
Bulktrk	p.u.	No.	Driver	Rick	Hulls	
			Driver		Salt	

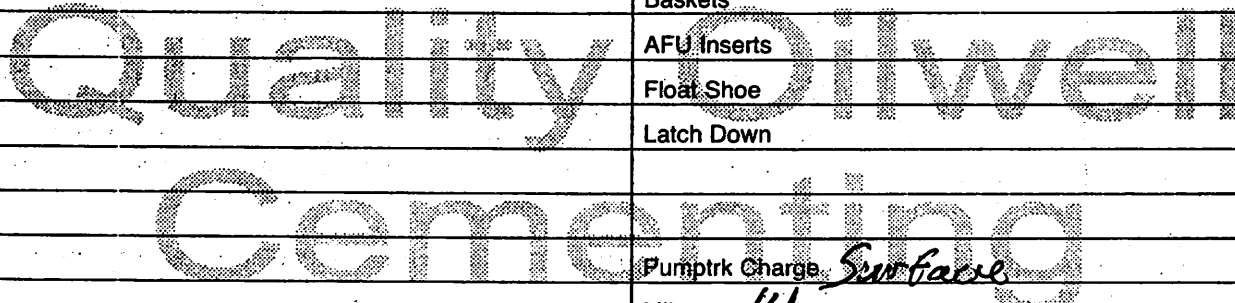
**JOB SERVICES & REMARKS**

Remarks:	Cement did Circulate	Flowseal	137#
Rat Hole		Kol-Seal	
Mouse Hole		Mud CLR 48	
Centralizers	used 275 Sx Common	CFL-117 or CD110 CAF 38	
Baskets	3% cc 2% Gel 1/2 # Flo-seal	Sand	
D/V or Port Collar		Handling	291
		Mileage	

Cut 150' of Sand

**FLOAT EQUIPMENT**

Guide Shoe	
Centralizer	
Baskets	
AFU Inserts	
Float Shoe	
Latch Down	



Pumptrk Charge	Surface
Mileage	14

X Signature <i>William Anderson</i>	Tax	
	Discount	
	Total Charge	



## GENERAL TERMS AND CONDITIONS

**DEFINITIONS:** In these terms and conditions, "Quality" shall mean Quality, Oilwell Cementing, Inc., and "Customer" shall refer to the party identified by that term on the front of this contract. As applicable, "Job" relates to the services described on the front side of this contract, "merchandise" refers to the material described on the front of this contract and to any other materials, products, or supplies used, sold, or furnished under the requirements of this contract.

– **TERMS:** Unless satisfactory credit has been established, "CUSTOMER" must tender full cash payment to "QUALITY" before the job is undertaken or merchandise is delivered. If satisfactory credit has been established, the terms of payment for the job and/or merchandise, including bulk cement, are net cash, payable in 30 days from the completion of the job and/or delivery of the merchandise. For all past due invoices, "CUSTOMER" agrees to pay interest on amounts invoiced at a rate of 18 percent per annum until paid. Notwithstanding the foregoing in no event shall this Contract provide for interest exceeding the maximum rate of interest that "CUSTOMER" may agree to pay under applicable law. If any such interest should be provided for, it shall be and hereby is deemed to be a mistake, and this contract shall be automatically reformed to lower the rate of interest to the maximum legal contract rate, any amounts previously paid as excess interest shall be deducted from the amounts owing from the "CUSTOMER" or at the option of "QUALITY," refunded directly to "CUSTOMER." For purposes of this paragraph, QUALITY and CUSTOMER agree that KANSAS law shall apply. Any discounts granted with this contract are null and void if the charges are not paid when due.

– **ATTORNEY FEES:** In any legal action or proceeding between the parties to enforce any of the terms of this Service Contract, or in any way pertaining to the term of this Contract, the prevailing party shall be entitled to recover all expenses, including, but not limit to, a reasonable sum as and attorney's fees.

– **PRICES AND TAXES:** All merchandise listed in "QUALITY'S" current price schedule are F.O.B. QUALITY'S local station and are subject to change without notice. All prices are exclusive of any federal, state, local, or special taxes for the sale or use of the merchandise or services listed. The amount of taxes required to be paid by QUALITY shall be added to the quoted prices charged to CUSTOMER.

– **TOWING CHARGES:** QUALITY will make a reasonable attempt to get to and from each job site using its own equipment. Should QUALITY be unable to do so because of poor or inadequate road conditions, and should it become necessary to employ a tractor or other pulling equipment to get to or from the job site, the tractor or pulling equipment will be supplied by CUSTOMER or, if furnished by QUALITY, will be charged to and paid by CUSTOMER.

– **PREPARATION CHARGES:** If a job and/or merchandise is ordered and CUSTOMER cancels the order after preparation of a chemical solution or other material, CUSTOMER will pay QUALITY for the expenses incurred by QUALITY as a result of the cancellation.

– **DEADHAUL CHARGES:** Unless otherwise specified on the front of this Contract, a deadhaul charges as set forth in QUALITY'S current price book will be charged each way for each service unit which is ordered by CUSTOMER but not used.

– **SERVICE CONDITIONS AND LIABILITIES:** 1. QUALITY carries public liability and property damage insurance, but since there are so many uncertain and unknown conditions beyond QUALITY'S control, QUALITY shall not be liable for injuries to property or persons or for loss or damage arising from the performance of the job or delivery of the merchandise. Customer shall be responsible for and indemnify, defend, and hold harmless QUALITY, its officers, agents and employees, from and against any and all claims or suits for:

(A) Damage to property or for bodily injury, sickness, disease, or death, brought by any person, including CUSTOMER and/or the well owner; and:

(B) Oil spills, pollution, surface or sub-surface damage, injury to the well, reservoir loss, or damage arising from a well blowout arising out of or in connection with QUALITY'S performance of the job or furnishing of merchandise in accordance with this contract, unless such loss or damage is caused by the willful misconduct or gross negligence of QUALITY or its employees.

2. With respect to any of QUALITY'S tools, equipment, or instruments which are lost in the well or damaged when performing or attempting to perform the job or, in the case of marine operations, are lost or damaged at any time after delivery to the landing for CUSTOMER and before return to QUALITY at the landing, CUSTOMER shall either recover the lost item without cost to QUALITY or reimburse QUALITY the current replacement cost of the item unless the loss or damage results from the sole negligence of QUALITY or its employees.

3. QUALITY does not assume any liability or responsibility for damages or conditions resulting from chemical action in cements caused by contamination of water or other fluids.

**WARRANTIES:** 1. QUALITY warrants all merchandise manufactured or furnished by it to be free from defects in material and workmanship under normal use and service when installed, and used, and/or serviced in the manner provided and intended. QUALITY'S obligation under this warranty is expressly limited to repair replacement, or allowance for credit, at its option, for any merchandise which is determined by QUALITY to be defective. THIS IS THE SOLE WARRANTY OF QUALITY AND NO OTHER WARRANTY IS APPLICABLE, EITHER EXPRESS OR OTHERWISE IMPLIED, IN FACT OR IN LAW, INCLUDING ANY WARRANTY AS TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, CUSTOMER'S sole and only remedy with regard to any defective merchandise shall be the repair or replacement thereof or allowance for credit as herein provided, and QUALITY shall not be liable for any consequential, special, incidental, or punitive damages resulting from or caused by defective materials, products or supplies.

2. More specifically:

(A) Nothing in this contract shall be construed as a warranty by QUALITY of the success or the effectiveness of the result of any work done or merchandise used, sold, or furnished under this contract.

(B) Nothing in this contract shall be construed as a warranty of the accuracy or correctness of any facts, information, or data furnished by QUALITY or any interpretation of test, meter readings, chart information, analysis or research, or recommendations made by QUALITY, unless the inaccuracy or incorrectness is caused by the willful misconduct or gross negligence of QUALITY or its employees in the preparation or furnishing of such facts, information or data. (C) Work done by QUALITY shall be under the direct supervision and control of the CUSTOMER or his agent and QUALITY will accomplish the job as an independent contractor and not as an employee or agent of the CUSTOMER.

# QUALITY OILWELL CEMENTING, INC.

Federal Tax I.D.# 20-2886107

Phone 785-483-2025  
Cell 785-324-1041

Home Office P.O. Box 32 Russell, KS 67665

No. 626

Date	9-14-14	Sec.	18	Twp.	19	Range	11	County	Barton	State	Ks	On Location		Finish	12:45 AM
------	---------	------	----	------	----	-------	----	--------	--------	-------	----	-------------	--	--------	----------

Location Ellinwood, Ks - west side 2 1/2 N E 1/4

Lease	<u>Karrie</u>	Well No.	<u>1</u>	Owner	To Quality Oilwell Cementing, Inc. You are hereby requested to rent cementing equipment and furnish cementer and helper to assist owner or contractor to do work as listed.
Contractor	<u>Southwind #2</u>				
Type Job	<u>Plug</u>				
Hole Size	<u>7 7/8"</u>	T.D.	<u>3400'</u>	Charge To	<u>RSM Company</u>
Csg.	<u>4 1/2" D.P.</u>	Depth	<u>636'</u>	Street	
Tbg. Size		Depth		City	State
Tool		Depth		The above was done to satisfaction and supervision of owner agent or contractor.	
Cement Left in Csg.		Shoe Joint		Cement Amount Ordered	<u>190 60140 4% Gel 1/4# Fl-Seal</u>

Meas Line Displace H2O

<b>EQUIPMENT</b>				Common	<u>114</u>
Pumptrk	<u>16</u>	No.	Cement Helper	Poz. Mix	<u>76</u>
			<u>Billy</u>		
Bulktrk	<u>3</u>	No.	Driver	Gel.	<u>7</u>
			<u>Lennie</u>		
Bulktrk	<u>pull</u>	No.	Driver	Calcium	
			<u>Rick</u>		

<b>JOB SERVICES &amp; REMARKS</b>				Hulls	
Remarks:				Salt	
Rat Hole				Flowseal	<u>50 FT</u>
Mouse Hole				Kol-Seal	
Centralizers	<u>636' - 50 SX</u>			Mud CLR 48	
Baskets	<u>353' - 85 SX</u>			CFL-117 or CD110 CAF 38	
DV or Port Collar	<u>40' - 10 SX w/ plug</u>			Sand	
	<u>Rat hole w/ 30 SX</u>			Handling	<u>197</u>
	<u>Mousehole w/ 15 SX</u>			Mileage	

				<b>FLOAT EQUIPMENT</b>	
<u>Cement did Circulate</u>				Guide Shoe	
				Centralizer	
				Baskets	
				AFU Inserts	
				Float Shoe	
				Latch Down	
					<u>Dry hole plug</u>
				Pumptrk Charge	<u>plug</u>
				Mileage	<u>14</u>

X Signature	<u>William Anderson</u>	Tax	
		Discount	
		Total Charge	

## GENERAL TERMS AND CONDITIONS

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**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: Karrie 1 Dst 1

TIME ON: 17:47 Sep 1  
TIME OFF: 00:39 Sep 2

Company RJM Company Lease & Well No. Karrie 1  
Contractor Southwind Drilling Rig 2 Charge to RJM Company  
Elevation 1792 sur Formation \_\_\_\_\_ Lan "A-B" Effective Pay \_\_\_\_\_ Ft. Ticket No. RR076  
Date 09/01/2014 Sec. 18 Twp. \_\_\_\_\_ 19 S Range \_\_\_\_\_ 11 W County \_\_\_\_\_ Barton State KANSAS  
Test Approved By Client Musgrove Diamond Representative RICKY RAY

Formation Test No. 1 Interval Tested from 3082 ft. to 3130 ft. Total Depth 3130 ft.  
Packer Depth 3077 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3082 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3072 ft. Recorder Number 0062 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 3118 ft. Recorder Number 5954 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 30 Drill Collar Length 0 ft. I.D. 2 1/4 in.  
Weight 8.9 Water Loss 29 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 5000 P.P.M. Drill Pipe Length 3059 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number na Test Tool Length 23 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NA Reversed Out NA Anchor Length 48A (16P) ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 xh in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1/2 Blow Built to 3 1/4 inches in 45 mins NOBB  
2nd Open: WSB Built to 1/2 in 45 mins NOBB

Recovered 21 ft. of GIP  
Recovered 41 ft. of SLO w/ HM 1% O 99% M  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_

Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: Tool Sample: <u>4 % G</u> <u>6% O</u> <u>2% W</u> <u>88 % M</u>	Insurance
	Total

Time Set Packer(s) 7:33 PM A.M. P.M. Time Started Off Bottom 10:48 PM A.M. P.M. Maximum Temperature 103

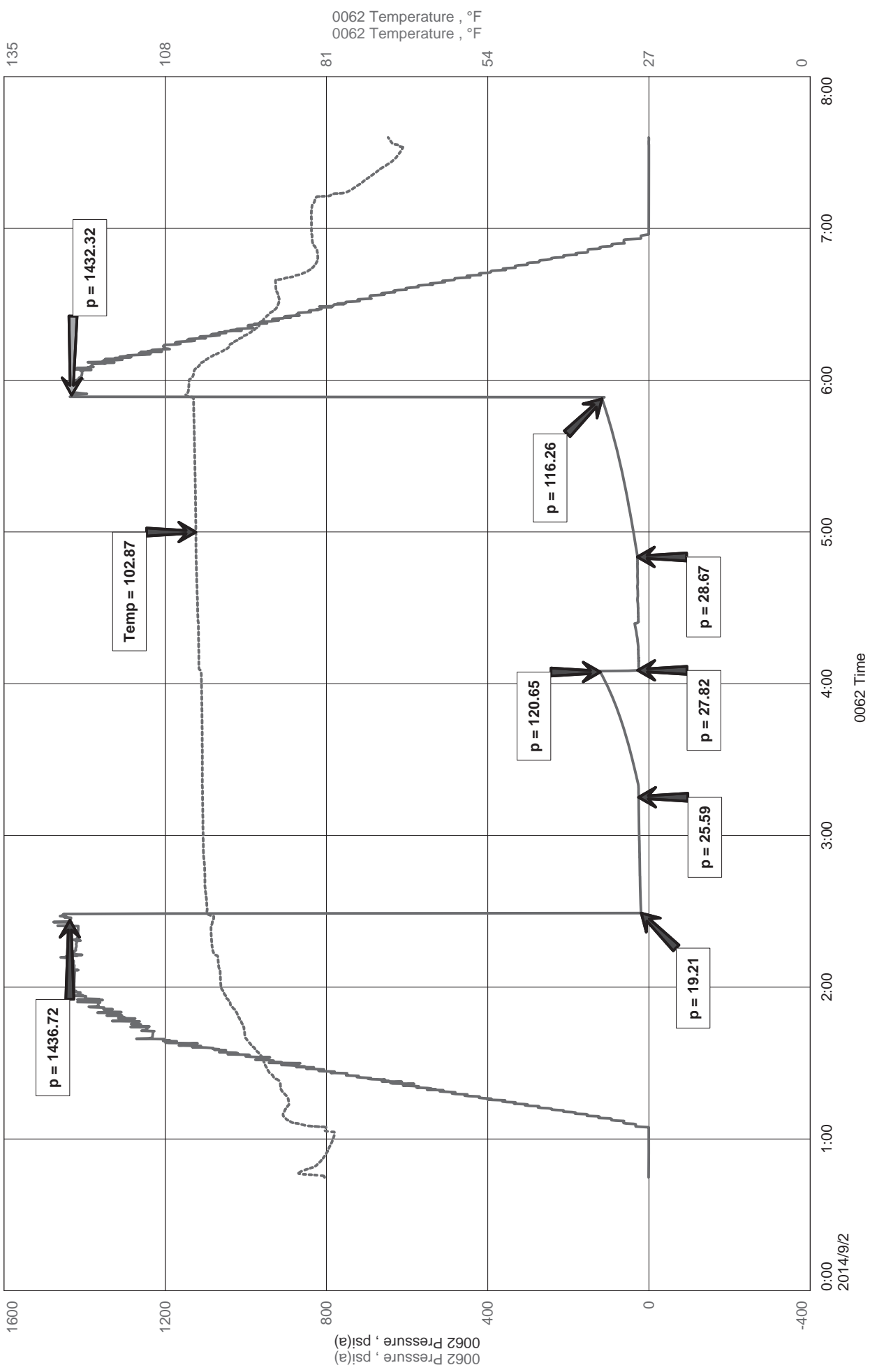
Initial Hydrostatic Pressure..... (A) 1437 P.S.I.  
Initial Flow Period..... Minutes 45 (B) 19 P.S.I. to (C) 26 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 121 P.S.I.  
Final Flow Period..... Minutes 45 (E) 28 P.S.I. to (F) 29 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 116 P.S.I.  
Final Hydrostatic Pressure..... (H) 1432 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

RJM Company  
Dst 1 Lan "A-B" (3082-3130)  
Start Test Date: 2014/09/01  
Final Test Date: 2014/09/02

Karrie 1  
Formation: Dst 1 Lan "A-B" (3082-3130)  
Pool: Infield  
Job Number: RR076

# Karrie 1





Diamond Testing LLC  
 P.O. Box 157  
 HoisingtonKS 67544

**Ricky Ray - Tester**  
**(620) 617-7261**

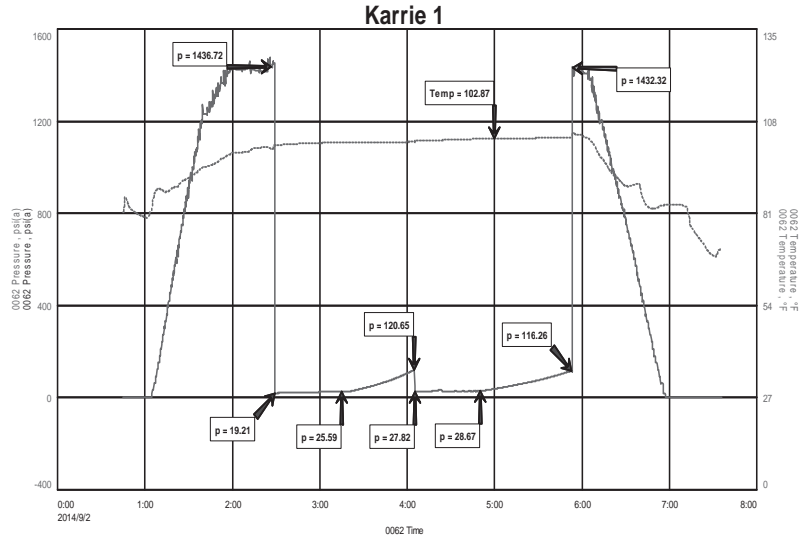
# Wellsite Report

## General Information

Company Name	RJM Company
Contact	Chris Hoffman
Well Operator	RJM Company
Well Name	Karrie 1
Surface Location	Sec: 18-19s-11w (Barton County)
Field	Cheyenne View Southeast
Well Type	Vertical
Pool	Infield
Test Purpose (AEUB)	Initial Test
Qualified By	Client Musgrove
Gauge Name	0062

## Test Information

Job Number	RR076
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 1 Lan "A-B" (3082-3130)
Start Test Date	2014/09/01 YYYY/MM/DD
Start Test Time	17:47:00 HH:mm:ss
Final Test Date	2014/09/02 YYYY/MM/DD
Final Test Time	00:39:00 HH:mm:ss



## Test Results

### Recovery:

21'	GIP		
41'	SLO w/ HM	1% O	99 % M

Tool Sample:	4%G	6% O	2% W	88% M
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**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: Karrie 1 Dst 2

TIME ON: 07:55  
TIME OFF: 14:03

Company RJM Company Lease & Well No. Karrie 1  
Contractor Southwind Drilling Rig 2 Charge to RJM Company  
Elevation 1792 sur Formation \_\_\_\_\_ Lan "C-F" Effective Pay \_\_\_\_\_ Ft. Ticket No. RR077  
Date 09/02/2014 Sec. 18 Twp. \_\_\_\_\_ 19 S Range \_\_\_\_\_ 11 W County \_\_\_\_\_ Barton State KANSAS  
Test Approved By Client Musgrove Diamond Representative RICKY RAY

Formation Test No. 2 Interval Tested from 3130 ft. to 3170 ft. Total Depth 3170 ft.  
Packer Depth 3125 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3130 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_

Top Recorder Depth (Inside) 3120 ft. Recorder Number 0062 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 3134 ft. Recorder Number 5954 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.

Mud Type CHEMICAL Viscosity 40 Drill Collar Length 0 ft. I.D. 2 1/4 in.  
Weight 9.2 Water Loss 15.2 cc. Weight Pipe Length 0 ft. I.D. 2 7/8 in.  
Chlorides 6000 P.P.M. Drill Pipe Length 3107 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number na Test Tool Length 23 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NA Reversed Out NA Anchor Length 40P ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 xh in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: WSB Built to 1/2 in 30 mins NOBB  
2nd Open: No Blow NOBB

Recovered <u>3</u> ft. of <u>M</u> <u>100% M</u>	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	
Recovered _____ ft. of _____	Price Job
Recovered _____ ft. of _____	Other Charges
Remarks: Tool Sample: <u>2 % O</u> <u>98% M</u>	Insurance
	Total

Time Set Packer(s) 9:52 AM A.M. P.M. Time Started Off Bottom 12:07 PM A.M. P.M. Maximum Temperature 100

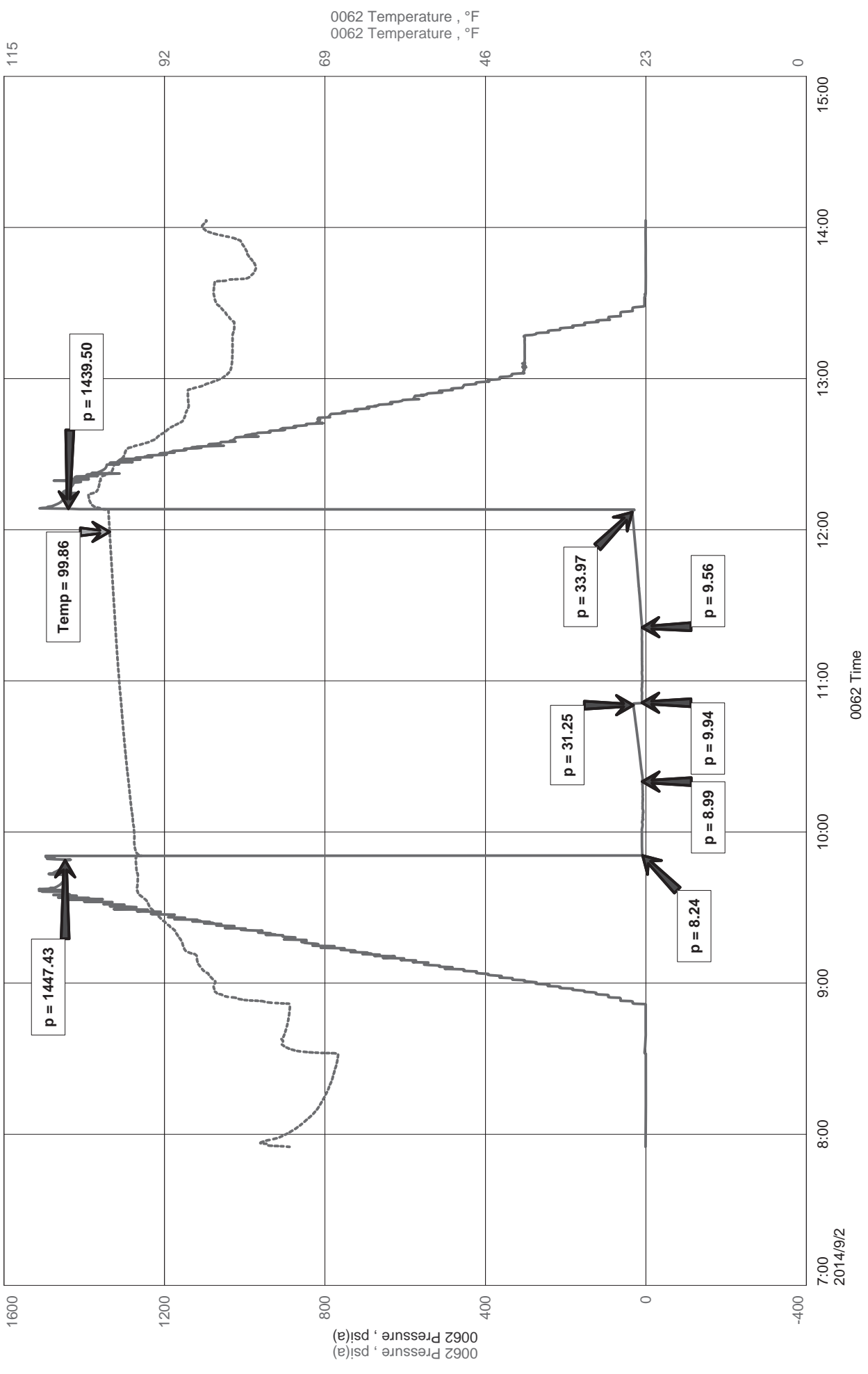
Initial Hydrostatic Pressure..... (A) 1447 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 8 P.S.I. to (C) 9 P.S.I.  
Initial Closed In Period..... Minutes 30 (D) 31 P.S.I.  
Final Flow Period..... Minutes 30 (E) 10 P.S.I. to (F) 10 P.S.I.  
Final Closed In Period..... Minutes 45 (G) 34 P.S.I.  
Final Hydrostatic Pressure..... (H) 1440 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

RJM Company  
 Dst 2 Lan "C-F" (3130-3170)  
 Start Test Date: 2014/09/02  
 Final Test Date: 2014/09/02

Karrie 1  
 Formation: Dst 2 Lan "C-F" (3130-3170)  
 Pool: infield  
 Job Number: RR077

# Karrie 1







Diamond Testing LLC  
 P.O. Box 157  
 Hoisington KS 67544

**Ricky Ray - Tester**  
**(620) 617-7261**

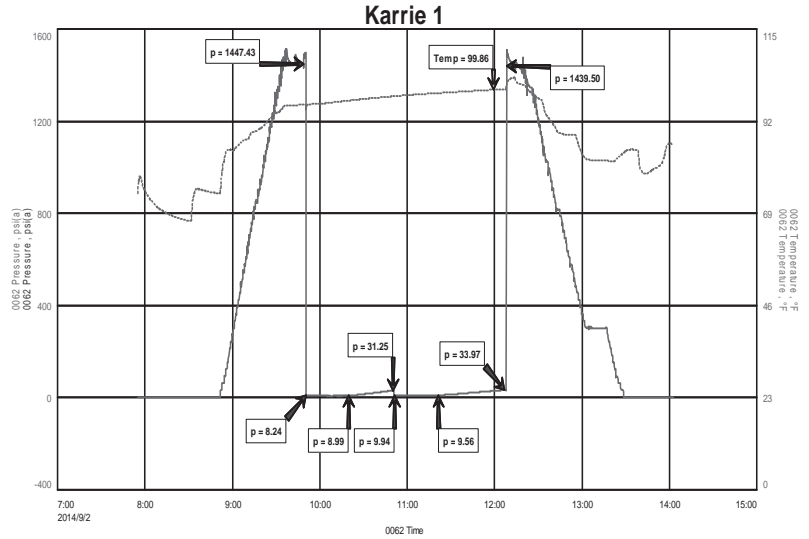
# Wellsite Report

## General Information

Company Name	RJM Company
Contact	Chris Hoffman
Well Operator	RJM Company
Well Name	Karrie 1
Surface Location	Sec: 18-19s-11w (Barton County)
Field	Cheyenne View Southeast
Well Type	Vertical
Pool	infield
Test Purpose (AEUB)	Initial Test
Qualified By	Client Musgrove
Gauge Name	0062

## Test Information

Job Number	RR077
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 2 Lan "C-F" (3130-3170)
Start Test Date	2014/09/02 YYYY/MM/DD
Start Test Time	07:55:00 HH:mm:ss
Final Test Date	2014/09/02 YYYY/MM/DD
Final Test Time	14:03:00 HH:mm:ss



## Test Results

Recovery:

3' M 100% M

Tool Sample: 2% O 98% M



**DIAMOND TESTING**  
P.O. Box 157  
**HOISINGTON, KANSAS 67544**  
(800) 542-7313  
**DRILL-STEM TEST TICKET**  
FILE: Karrie 1 Dst 3

TIME ON: 20:15 Sep 2  
TIME OFF: 02:35 Sep 3

Company RJM Company Lease & Well No. Karrie 1  
Contractor Southwind Drilling Rig 2 Charge to RJM Company  
Elevation 1792 sur Formation \_\_\_\_\_ Lan "G" Effective Pay \_\_\_\_\_ Ft. Ticket No. RR078  
Date 09/02/2014 Sec. 18 Twp. \_\_\_\_\_ 19 S Range \_\_\_\_\_ 11 W County \_\_\_\_\_ Barton State KANSAS  
Test Approved By Client Musgrove Diamond Representative RICKY RAY

Formation Test No. 3 Interval Tested from 3170 ft. to 3207 ft. Total Depth 3207 ft.  
Packer Depth 3160 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.  
Packer Depth 3170 ft. Size 6 3/4 in. Packer depth \_\_\_\_\_ ft. Size 6 3/4 in.

Depth of Selective Zone Set \_\_\_\_\_  
Top Recorder Depth (Inside) 3160 ft. Recorder Number 0062 Cap. 5000 P.S.I.  
Bottom Recorder Depth (Outside) 3171 ft. Recorder Number 5954 Cap. 5000 P.S.I.  
Below Straddle Recorder Depth \_\_\_\_\_ ft. Recorder Number \_\_\_\_\_ Cap. \_\_\_\_\_ P.S.I.  
Mud Type CHEMICAL Viscosity 40 Drill Collar Length \_\_\_\_\_ 0 ft. I.D. 2 1/4 in.  
Weight 9.2 Water Loss 15.2 cc. Weight Pipe Length \_\_\_\_\_ 0 ft. I.D. 2 7/8 in.  
Chlorides 6000 P.P.M. Drill Pipe Length 3147 ft. I.D. 3 1/2 in.  
Jars: Make STERLING Serial Number na Test Tool Length 23 ft. Tool Size 3 1/2-IF in.  
Did Well Flow? NA Reversed Out NA Anchor Length 37 P ft. Size 4 1/2-FH in.  
Main Hole Size 7 7/8 Tool Joint Size 4 1/2 xh in. Surface Choke Size 1 in. Bottom Choke Size 5/8 in.

Blow: 1st Open: 1/4 Blow Built to 4 1/4" in 30 mins NOBB  
2nd Open: WSB Built to 4 1/2" in 45 mins NOBB

Recovered 17 ft. of GIP  
Recovered 107 ft. of MW 80% W 20% M  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ RW: .16 @ 74 Deg  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ Chlorides: 57,000 PPM Price Job  
Recovered \_\_\_\_\_ ft. of \_\_\_\_\_ PH: 7 Other Charges  
Remarks: Tool Sample: 1% O 77% W 22% M Insurance  
Total

Time Set Packer(s) 9:43 PM Sep 2 <sup>A.M.</sup>/<sub>P.M.</sub> Time Started Off Bottom 12:43 AM Sep 3 <sup>A.M.</sup>/<sub>P.M.</sub> Maximum Temperature 107

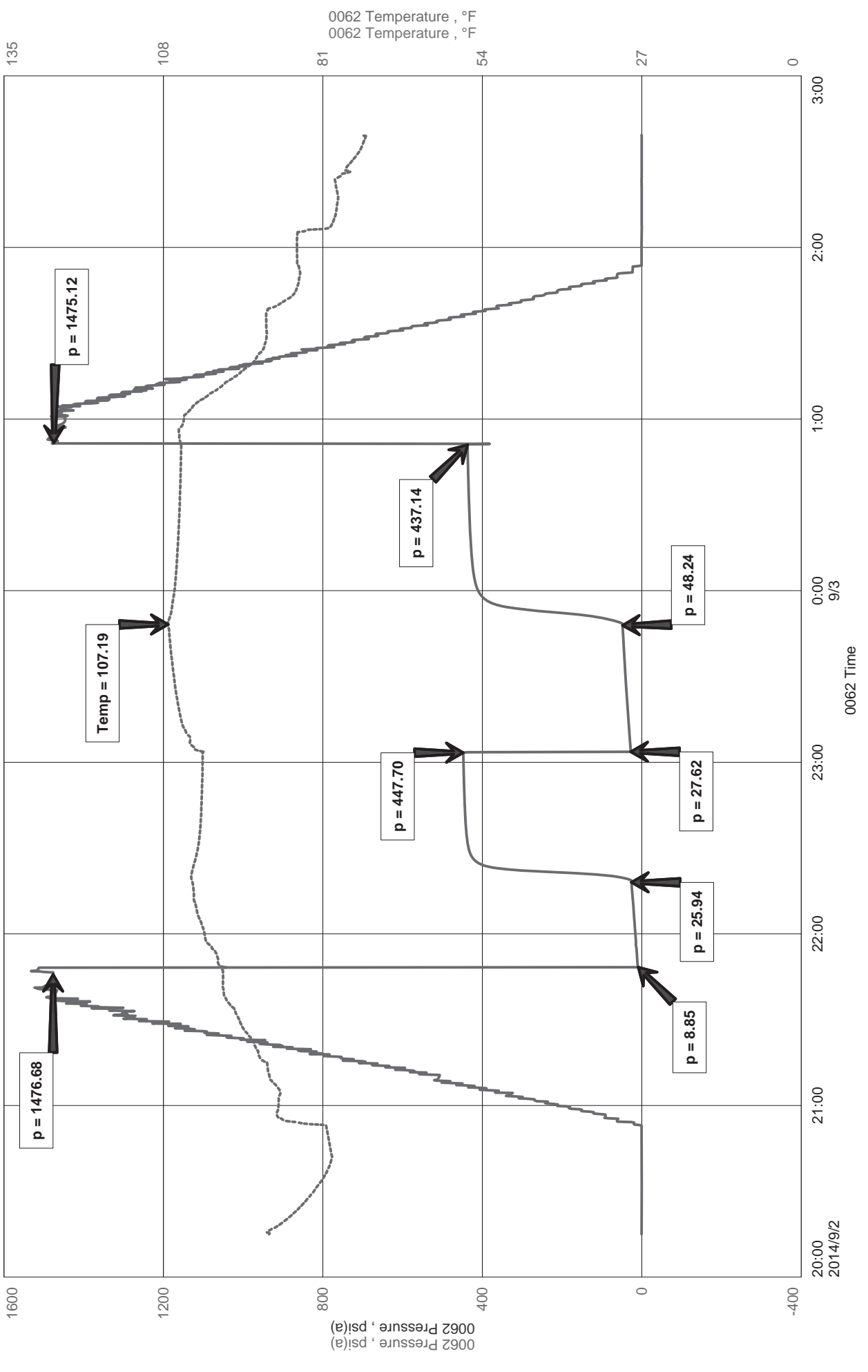
Initial Hydrostatic Pressure..... (A) 1478 P.S.I.  
Initial Flow Period..... Minutes 30 (B) 9 P.S.I. to (C) 26 P.S.I.  
Initial Closed In Period..... Minutes 45 (D) 448 P.S.I.  
Final Flow Period..... Minutes 45 (E) 28 P.S.I. to (F) 48 P.S.I.  
Final Closed In Period..... Minutes 60 (G) 437 P.S.I.  
Final Hydrostatic Pressure..... (H) 1475 P.S.I.

Diamond Testing shall not be liable for damages of any kind to the property or personnel of the one for whom a test is made or for any loss suffered or sustained, directly or indirectly, through the use of its equipment, or its statement or opinion concerning the result of any test. Tools lost or damaged in the hole shall be paid for at cost by the party for whom the test is made.

RJM Company  
 Dst 3 Lan "G" (3170-3207)  
 Start Test Date: 2014/09/02  
 Final Test Date: 2014/09/03

Karrie 1  
 Formation: Dst 3 Lan "G"  
 Pool: Infield  
 Job Number: RR078

# Karrie 1





Diamond Testing LLC  
 P.O. Box 157  
 HoisingtonKS 67544

**Ricky Ray - Tester**  
**(620) 617-7261**

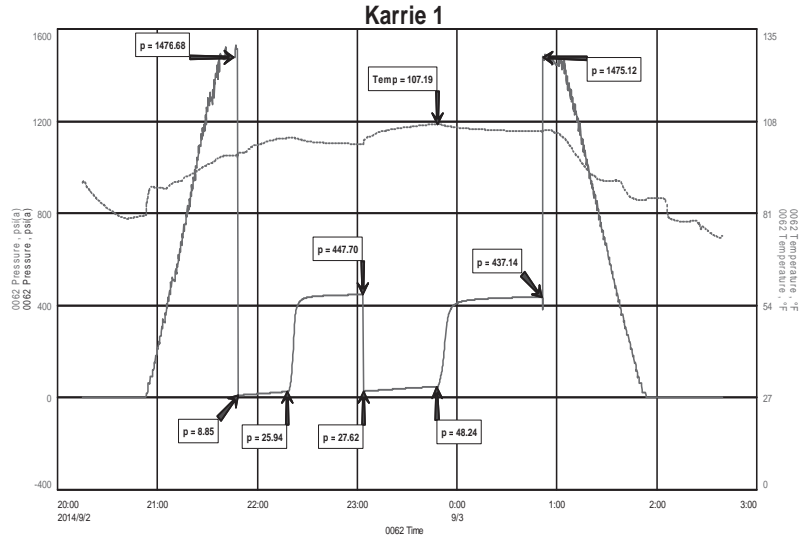
# Wellsite Report

## General Information

Company Name	RJM Company
Contact	Chris Hoffman
Well Operator	RJM Company
Well Name	Karrie 1
Surface Location	Sec: 18-19s-11w (Barton County)
Field	Cheyenne View Southeast
Well Type	Vertical
Pool	Infield
Test Purpose (AEUB)	Initial Test
Qualified By	Client Musgrove
Gauge Name	0062

## Test Information

Job Number	RR078
Test Type	Drill Stem Test
Well Fluid Type	01 Oil
Formation	Dst 3 Lan "G" (3170-3207)
Start Test Date	2014/09/02 YYYY/MM/DD
Start Test Time	20:15:00 HH:mm:ss
Final Test Date	2014/09/03 YYYY/MM/DD
Final Test Time	02:35:00 HH:mm:ss



## Test Results

### Recovery:

17'	GIP		
107'	MW	80% W	20% M

Tool Sample:	1% O	77% W	22% M
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RW: .16 @ 74 Deg  
 Chlorides: 57,000 PPM  
 PH: 7